

ABSTRACT

The locking and stabilizing device for grenades utilizes a solid nylon ring and multiple nylon ribbons that are attached to the ring at regular intervals around its circumference. During storage, the ring surrounds and locks the slider of the grenade in its storage position. But upon deployment, under aerodynamic forces the ring moves away from the slider, releasing the slider. When the slider is thusly released, it slides out and brings the detonator in place to be impacted upon by the pin when the grenade hits the target, thus detonating the grenade. The multiple ribbons extending from the ring unfurl due to the aerodynamic forces and provide stability to the grenade flight.